CEMENT and CONCRETE RESEARCH. Vol. 17, pp. 1015-1022, 1987. Printed in the USA. 0008-8846/87 \$3.00+00. Copyright (c) 1987 Pergamon Journals, Ltd.

## **INDEX TO VOLUME 17**

1987	Volume 17, Number 1 Jan	uary
	AGER and E.J. SELLVOLD: Ice Formation in Hardened Cement Paste. Part III. Slow	
J. RAGA	AI, H.Y. GHORAB and A. ANTAR: Surface and Bulk Properties of Ancient Egyptian Mortars.	1
I. ODLE	II: Adsorption and Infrared Studies	12
	ition	22
Com	npounds	31
Gro	uts - Part 2: CO <sub>2</sub> Attack at 250°C	37
	erials on the Example of Flexural Strength of Portland Cement	. 47
	CCARTER: Gel Formation During Early Hydration	55
M. BUI	L and P. DELAGE: Some Further Evidentce on a Specific Effect of Silica Fume on the Pore cture of Portland Cement Mortars	65
	DROVIC, A.L. STOJIMIROVIC and H.J. PETROSKI: Effect of Age on Splitting Tensile	03
	ngth and Fracture Resistance of Concrete	70
R.G. NI	EWTON and J.H. SHARP: The Chemical Composition of Lime Plasters  LKL, R.E. BEDDOE and M.J. SETZER: The Specific Surface of Hardened Cement Paste	77
	Small-Angle X-Ray Scattering Effect of Moisture Content and Chlorides	81
R.J. CO	DLLINS and P.D. BAREHAM: Alkali-Silica Reaction: Suppression of Expansion Using our Aggregate	89
G. DAY	/IES and R.E. OBERHOLSTER: Use of the NBRI Accelerated Test to Evaluate the Effectiveness //ineral Admixtures in Preventing the Alkali-Silica Reaction	97
A. DUF	REKOVIC AND K. POPOVIC: The Influence of Silica Fume on the Mono-Di Silicate Anion Ratio	7/413
	ring the Hydration of CSF-Containing Cement Paste	108
B. VID	FORS: Influence of Silica Fume and Flyash on Chloride Diffusion and pH Values in Cement Paste ICK: Thermo-Programmed Desorption: Application to Cement Characterization	115 131
	ults and an Hypothesis Concerning the Mechanism	141
	MAR, S. KOMARNENI and D.M. ROY: Diffusion of Cs <sup>+</sup> and Cl <sup>-</sup> Through Sealing Materials	
F.H. W	ITTMANN: An Unusual Energy Source	
	dels in Light of Recent Data	164
NEWS	ITEMS	171
SOFTW	VARE SURVEY SECTION	I
	* * * * *	
1987	Volume 17, Number 2	March
A. MC	DRAGUES, A. MACIAS and C. ANDRADE: Equilibria of the Chemical Composition of the	
	Increte Pore Solution. Part I. Comparative Study of Synthetic and Extracted Solutions	. 173
Co	ntent in Fly Ashes and Slags	• 183
A.N. S	CIAN, J.M. PORTO LOPEZ and E. PEREIRA: High Alumina Cements. Study of O.Al <sub>2</sub> O <sub>3</sub> Formation. I. Stoichiometric Mechanism	• 198
WU X	UEQUAN, DONG JIANGBO and TANG MINGSHU: Microwave Curing Technique in Concrete	198
	anufacture	. 205

	rocracking in Concrete under Static and Repeated Tensile Loading	211
	ARMARAJAN; Flexural Behavior of Polyester Polymer Concrete	219
	C. YAN: The Fracture Toughness of Concrete under Impact Loading	231
	T: Evolution Micro-Structurale des Composites du Systeme Ciment	
	I. Mode de Propagation de la Fissure	242
	ENQ: A Fracture Mechanics Model to Predict the Rate Sensitivity	
	• • • • • • • • • • • • • • • • • • • •	249
	and R. WOLFEL: Creep of Concrete at Elevated Temperatures	
	Moisture	263
	elective Dissolution of Hydrated Blast Furnace Slag Cements	273
	Low Cement Content High Strength Concrete	283
	A, L.E. KUKACKA and N. CARCIELLO: Carbonation of Geothermal	Lu.
Grouts - Part 3: CO <sub>2</sub> Attack o	on Grouts Containing Bentonite	295
	Galvanized Steel Bahaviour in Ca(OH) <sub>2</sub> Saturated Solutions	
Containing SO <sub>4</sub> Ions		307
	ence of Sulfur on the Composition of Belite-Rich Cement Clinkers	015
and the Technological Propert	ies of the Resulting Cements	317
	dy of a Coaxial Cylinders Viscometer for Mortar	329
	OROS and D.M. ROY: Low-Frequency Electrical Conductivity	240
	er Mineral Pastes	340
	ent Based Paint	349
	ism of Cyclic Freezing - Thawing in Sulfur Concrete	357
w. KURDOWSKI: Bromide Alif	nite	361
DISCUSSIONS		
		365
	and A.K. Singh	367
N.B. Shigh, S. Flabila Shigh a	ilid A.A. Siligii	307
NEWS ITEMS		369
	N	309 I
SOLI WARE SORVET SECTIO		1
	* * * * * *	
1987	Volume 17, Number 3	May
		•
A. DUDA: Aspects of the Sulfate	e Resistance of Steelwork Slag Cements	373
	AMY: Chloride Diffusion in Steel Fibre Reinforced Marine Concrete	385
A. BACHIORRINI et M. MURA	T: Evolution Microstructurale des Composites du Systeme Ciment	
Alumineux-Granulat Calcaire	e. II: Influence sur la Porosite et les Resistances Mecaniques	397
R. SERSALE and G. FRIGIONE	: Portland-Zeolite-Cement for Minimizing Alkali-Aggregate	
Expansion		404
E. RINGOT, J.P. OLLIVIER and	J.C. MASO: Characterisation of Initial State of Concrete with	
		411
B.R. CURRELL, R. GRZESKOV	WIAK, H.G. MIDGLEY and J.R. PARSONAGE: The Acceleration	
and Retardation of Set High A	Alumina Cement by Additives	420
	TER, S. WINZER, T. JOHNSON and D. BARKER: High-Strain-Rate	
	t Pastes	433
	Y. LEUNG: Experimental Determination of the Tension-Softening	
	Composites	411
	MANN: Shrinkage Mechanisms of Hardened Cement Paste	453
	ozzolanic Reactions in Concrete. Part 2: Observations on Expanded	
Perlite Aggregate Concretes		465
	JDOIN: A Novel Technique for Determining Bond Strength Development	
	teel	
	Carbonation of Concrete and Its Prediction	
7 D DATANT I imitations of C	Strain-Hardening Model for Concrete Creen	505

	ibution to the Paper: Characterisation of Granulated and Pelletized	
Blast Furnace Slag		510
DISCUSSIONS		
J. Bensted		513
R. Oberste-Padtberg		515
W.J. McCarter		517
M. Perez-Pena, D.M. Roy, A.S. B	Bhalla and L.E. Cross	519
NEW COMEN CO		
		523
SOFTWARE SURVEY SECTION	••••••	I
	* * * * * *	
1987	Volume 17, Number 4	July
A.N. SCIAN, J.M. PORTO LOPEZ a	and E. PEREIRA: High Alumina Cements. Study of	
	tics ·····	525
	SHEN DEXUN: Research on Positron Annihilation and	
L. BALEWSKI, M. WEJCHAN-JUD	DEK and A. ZUK: Increasing of Adhesion of Aggregate to Matrix	532
		539
	N GUO: Bond Between Marble and Cement Paste	544
	e Coordination of Al in Ill-Crystallized C-S-H Phases Formed	
	ate and by Precipitation Reactions at Ambient Temperature	553
	IN: Bond Strength Development Between Latex-Modified	
	Company Post II. The New Possible have Double Lawrence Company	562
	Cement. Part II: The Non-Equilibrium Double Layer on Cement d R.J. KETTLE: Surface Microstructure and Abrasion Resistance	573
	A K.J. KET I LE. Surface Microstructure and Advasion Resistance	581
	Dissolution Rate of Silica Fume in Very High Strength Concrete	591
	rements in Cement Paste by Water Replacement Using Propan-2-OL	602
	R: Reactions of Tricalcium Silicate Paste with Organic Liquids	613
	ERG, J.P. LAURENT and F. RONDELEZ: Selective Surface	0.00
	ases in Portland Cement Powders Using Alkyltrichlorosilane	624
M. MURAT, A. El HAJJOUJI and C	C. COMEL: Investigation on Some Factors Affecting the	
Reactivity of Synthetic Orthorhol	mbic Anhydrite with Water. I: Role of Foreign Cations in	
		633
	Y: Chloride Diffusion in Steel Fibre Reinforced Concrete	
		640
	Strengthening the Bond Between Cement Stone and Aggregates	651
	crocracking and Cracking Limit State as Functions of Strain	
	Nine Standard of C.S. H. Cal. in Compant Darter Information from	661
X-Ray Diffraction and Dielectric	Illine Structure of C-S-H Gel in Cement Pastes Inferences from	673
	Capacitivity Data	681
O.P. MCHEDLOV-PETROSSIAN.	Classification of Hardening Processes of Billding Materials	001
DISCUSSIONS		
		683
		685
		687
S.L. Sarkar		691
	Miljkovic, J. Jian, M.M. Pintar, G. Lahajnar and R. Blinc	693
		695
S. Chatterji		697
I I Reaudoin		699

SOFTWARE SURVEY SECTION	N		I
	* * * * * *		
1987	Volume 17, Number 5	September	
1987	Volume 17, Number 3	September	
R.J. SLOTA: Utilization of Water	r Glass as an Activator in the Manufacturing of Cementitie	ous	
Materials from Waste-By-Prod	lucts	70	)3
WU XUEQUAN, LI DONGXU, E	BIAN QINGHAN, GUO LIQUN and TANG MINGSHU: osite Process in Concrete Manufacturing		20
F. BASILE, S. BIAGINI, G. FER	RARI and M. COLLEPARDI: Effect of the Gypsum Stat	e in	
	tion of Superplasticizers		
P.S. MANGAT and K. GURUSA	orkability and Expansion of a Salt-Saturated Concrete . MY: Pore Fluid Composition under Marine Exposure of	Steel	
	and S. TERAMURA: Low Temperature Fracture Behavior		34
Characteristics of Autoclaved	Aerated Concrete (AAC)	74	43
	ROSSE: On the Importance of Initial Stresses in Concrete		
	m 76 - 60 to 110 - 4 th 11 to 60 (01)		
S. CHATTERJI, N. THAULOW	: The Effect of Salt Additions on the Alkalinity of Ca(OH and A.D. JENSEN: Studies of Alkali-Silica Reaction. Pa	rt 4. Effect	
	ions on Expansion		
	Interfacial Zone Between Marble and Tricalcium Paste . rious Constituent with Respect to Freeze-Thaw Durability	of Concrete	
P.J. ANDERSEN, D.M. ROY and	d J.M. GAIDIS: The Effects of Adsorption of Superplastic	cizers on	
A. El HAJJOUJI and M. MURAT	Γ: Strength Development and Hydrate Formation Rate. In	rvestigation	
I. CANHAM, C.L. PAGE and P.J	uantitative Description of the Kinetics of Hardening of Pol J. NIXON: Aspects of the Pore Solution Chemistry of Ble	ended Cements	
	ali Silica Reactionea Determination by Gas Adsorption: Influence of the Adsorption		
NEWS ITEMS	states from a Mallant Comes Foundari Cong Alight	8.	49
SOFTWARE SURVEY SECTIO			]
	* * * * * *		
1987	Volume 17, Number 6	Novembe	_
The second of th	Volume 17, Number 0	Novembe	
	K. CARTLEDGE and M.E. TITTLEBAUM: Scanning E ve X-Ray Analysis of Type I Portland Cement Pastes Conf		
Parachlorophenol S.L. SARKAR, C. JOLICOEUR	and J. KHORAMI: Microchemical and Microstructural In		51
of Degradation in Asbestos-C S. CHANDRA and P. FLODIN:	Cement Sheet Interactions of Polymers and Organic Admixtures on Por		64
Hydration	C.A. FYFE and G.J. KENNEDY: Naturally Occurring 1.4 Characterization by <sup>27</sup> Al and <sup>29</sup> Si MASNMR Spectrosc		75
morite and Synthetic Jennite:	Characterization by <sup>27</sup> Al and <sup>29</sup> Si MASNMR Spectrosc	opy and Cation	
Exchange Properties	FOY: Critical Air-Void Spacing Factors for Low Water-		191
With and Without Condensed	d Silica Fume	8	es 896
C. ARAY, N.R. BUENFELD and	d J.B. NEWMAN: Assessment of Simple Methods of Det		'n

T.R. NAIK and B.W. RAMME: Determination of the Water Content of Concrete by the Microwave	
Method	927
R.J. TORRENT, E.N. DVORKIN and A.M. ALVAREDO: A Model for Work-Hardening Plasticity and	
Failure of Concrete under Multiaxial Stresses	939
Z.P. BAZANT: Snapback Instability at Crack Ligament Tearing and Its Implication for Fracture Micro-	
mechanics · · · · · · · · · · · · · · · · · · ·	951
C. EHM, K. HINRICHSMEYER and U. DIEDERICHS: Mechanical and Physical Properties of Flyash	
Concrete After Hydrothermal Storage	968
TAN MUHUA and D.M. ROY: An Investigation of the Effect of Organic Solvent on the Rheological	
Properties and Hydration of Cement Paste	983
PC. AITCIN, S.L. SARKAR, M. REGOURD and D. VOLANT: Retardation Effect of Superplasticizer	
on Different Cement Fractions	995
DISCUSSIONS	
W.B. Butler	1001
H. Roper and D. Baweja	1003
D.W.S. Ho and R.K. Lewis	1005
S. Chatterji	1009
D.H. Bager and E.J. Sellevold	1010
NEWS ITEMS	1013
INDEX TO VOLUME 17	1015
SOFTWARE SURVEY SECTION	I

7850.00 LE PATALIET MUITE

## **KEY WORD INDEX**

ACCELERATED TEST 97 **ACOUSTIC EMISSION 743 ACTIVATOR 703 ADMIXTURES 875** ADSORPTION 12,805 AGED LIME PLASTERS 77 AIR VOID SPACING 896 **ALKALINITY 839 ALKALI-SILICA 141** ALKALI-SILICA REACTION 89, ALKALI-SILICA REACTIVITY 97 27<sub>A1</sub> 891 **ANCIENT MORTARS 12 ANHYDRITE BINDERS 814 ASBESTOS-CEMENT 864 ASBESTOS-CEMENT COMPOSITE 31** AUTOCLAVED AERATED **CONCRETE 743 BOND 919 BRITTLE STRENGTH 919** 

Ca(OH)<sub>2</sub> SOLUTIONS 765 CARBONATION 37 CEMENT 47, 108, 703, 805, 821, 845, 977 **CEMENT FRACTIONS 995 CEMENT HYDRATION 875 CEMENT PASTE 55, 81, 851,** 983 CC 77 **CHARACTERIZATION 131** CHLORIDE 81, 765 CHLORIDE DIFFUSION 115 CHLORITE 793 COMPOSITE PROCESS 709 COMPOSITION 22, 47, 77 **CONCRETE 734** CONCRETE MANUFACTURE **CRACK PROPAGATION 755** CRITICAL FACTORS 896 Cs 153 C<sub>3</sub>S 164 C3S PASTE 784

DELETERIOUS EFFECTS 793 DETERMINATION 907 DIFFUSION 153 DISILICATE 108 DISPLACEMENT 951 DURABILITY 709

EDXA 851, 864
EFFECTIVENESS 715
ENERGY SOURCE 161
EGYPT 12
EXPANSION 777
EXPANSIVE CONCRETE 723

FIRST-ORDER 821 FLEXURAL STRENGTH 47 FLYASH 115, 839, 977 FLY ASH CONCRETE 968 FRACTURE 31, 743 FRACTURE RESISTANCE 70 FREE CHLORIDE ION 907 FREQUENCY EFFECT 55 FREEZE-THAW DURABILITY 793

GAS ADSORPTION 845
GEL FORMATION 55
GEOTHERMAL CEMENTS 37
GYPSUM 12
GYPSUM STATE 715

HARDENING 831
HYDRATES 845
HYDRATION 164,983
HYDRATION RATE 814
HYDROTHERMAL TREATMENT 968
ICE FORMATION 1
INITIAL STRESSES 755
INTERACTION 875
INTERFACE 709,784

JENNITE 891

IR 12

**KINETICS 821** 

LIGAMENT 951 LOW TEMPERATURE 743

MARBLE 784
MARINE 734
MASNMR 891
MATHEMATICAL MODELS 47
MC 77
MECHANICAL TREATMENT
968

MECHANISM 141
METHOD 907
MH 77
MICROCRACKING 951
MICROSTRUCTURE 864
MICROWAVE METHOD 927
MINERAL ADMIXTURES 97
MODELS 164, 821, 939
MOISTURE 81
MOISTURE TRANSFER 161
MULTIAXIAL STRESS 939

NOTCH 70

**ORGANIC SOLVENT 983** 

PARACHLOROPHENOL 851 PASTE-ROCK 919 PASTES 22 pH 115, 765 PHYSICAL CAUSES 755 PLASTICITY 939 **POLYMERS 875** POLYSTYRENE 805 PORE FLUIDS 734 PORE SOLUTIONS 839 PORE STRUCTURE 65 POROSITY 22 **POROUS AGGREGATE 89** POZZOLANIC REACTIONS 141 PROBABILISTIC TREATMENT 919

RAPID DETERMINATION 927 RATE 1

RESATURATION 1 RETARDATION 995 RHEOLOGY 983

SALTS 765, 777
SALTS EFFECT 977
SAXS 81
SEALING MATERIALS 153
SEM 851
SHELLS 65
<sup>29</sup>Si 891
SILICA FUME 65, 108, 115, 896
SLAG 839, 977
SNAPBACK INSTABILITY 951
NaCl 723
SODIUM SILICATE 703
SPECIFIC SURFACE 81

STEEL FIBER-REINFORCEMENT 734 STREAMING POTENTIAL 161 STRENGTH 22, 70, 784, 814 STRUCTURE 22, 784 SULFATE 765 SUPERPLASTICIZERS 715, 805, 995 SURFACE AREA 845 SUPPRESSION 89 TENSILE SPLITTING 70 THERMO-PROGRAMMED DESORPTION 131 TMS 108 TOBERMORITE 891 250°C WASTE PRODUCTS 703 WATER CONTENT 927 WEIBULL STATISTICS 31 WORKABILITY 723 WORK-HARDENING 939

XRD 864

ZETA-POTENTIAL 977

## **AUTHOR INDEX**

ACKER, P. 755
ABDUL-MAULA, S. 22
AITCIN, P.-C. 591, 995
ALVARDEO, A.M. 939
ANDERSEN, P.J. 805
ANDRADE, C. 173, 307
ANDRADE, W.P. 919
ANTAR, A. 12
ARYA, C. 907

BACHIORRINI, A. 242, 397 BAGER, D.H. 1, 1010 BALEWSKI, L. 539 BANFILL, P.F.G. 329 BANTHIA, N. 231 BARKER, D. 433 BAREHAM, P.D. 89 BASCOUL, A. 661 BASILE, F. 715 BAWEKA. D/ 1003 BAZANT, Z.P. 505, 951 BEAUDOIN, J.J. 478, 562, 693 BEDDOE, R.E. 81 BENSTED, J. 513, 683 BHALLA, A.S. 519 BIAGINI, S. 715 **BIAN QINGHAN 709 BLINC**, 693 BOULAY, C. 755 BREVAL, E. 349 BUENFELD, N.R. 907 BUIL, M. 65 **BUTLER, W.B. 1001** BYFORD, K. 115

CANHAM, I. 839 CAO, H.T. 510 CARCIELLO, N. 37, 295 CARTLEDGE, F.K. 851 CHAN, C.-M. 441 CHANDRA, S. 875 CHATTERJI, S. 697, 777, 1009 CHEN ZHI YUAN 544 CHILDS, G. 433 COHEN, M.D. 357 COLLEPARDI, M. 715 COLLINS, R.J. 89 COMEL, C. 633 COOK, D.J. 510, 685 CROSS, L.E. 519 CURRELL, B.R. 420

DAVIES, G. 97
DELAGE, P. 65
DHARMARAJAN, N. 219
DIAZ, G. 31
DIEDERICHS, U. 968
DONG JIANGBO 205
DOUGLAS, E. 183
DRAGICEVIC, Lj.M. 47
DUDA, A. 373
DUREKOVIC, A. 108
DVORKIN, E.N. 939

EATON, H.C. 851 EHLERT, G. 263 EHM, C. 968 EI HAJJOUJI, A. 633, 814

FARKAS, E. 340 FELDMAN, R.F. 602 FENG XIUJI, 532 FERRARI, G. 715 FERRARIS, C.F. 453 FLODIN, P. 875 FOY, C. 896 FRIGIONE, G. 404 FYFE, C.A. 891

GAGNE, R. 896 GAIDIS, J.M. 805 GIES, A. 317 GHORAB, H.Y. 12 GLASSER, F.P. 273 GRUDEMO, A. 673 GRUTZECK, M.W. 164 GRZESKOWIAK, R. 420 GUO LIQUN 709 GURUSAMY, K. 385, 640, 734

HEMMINGS, R.T. 183 HIGGS, N.B. 793 HINRICHSMEYER, K. 968 HO, D.W.S. 489, 1005

JAMES, J. 687 JAWED, I. 433 JENQ, Y.-S. 249 JENSEN, A.D. 777 JEONG, H.D. 743 JIAN, J. 693 JOHN, R. 249 JOHNSON, T. 433 JOLICOEUR, C. 864

KENNEDY, G.J. 891 KETTLE, R.J. 581 KHORAMI, J. 864 KITTL, P. 31 KNOFEL, D. 317 KOMARNENI, S. 153, 891 KUKACKA, L.E. 37, 295 KUMAR, A. 153 KURDOWSKI, W. 361

LAHAJNAR, G. 693 LASIC, D.D. 693 LAURENT, J.P. 624 LEWIS, R.K. 489, 1005 LEUNG, C.K.Y. 441 LI DONGXU 709 LI, V.C. 441 LONG SHIZONG 532 LUKE, K. 273

MACIAS, A. 173, 307
MacTAVISH, J.C. 693
MANGAT, P.S. 385, 640, 734
MASO, J.C. 411
McCARTER, W.J. 55, 517
MCHEDLOV-PETROSSIAN, O.P. 681
MIDGLEY, H.G. 420
MILESTONE, N.B. 37, 295
MILJKOVIC, L. 693
MINDESS, S. 231
MONTEIRO, P.J.M. 919
MORAGUES, A. 173
MULLER, D. 553
MURAT, M. 242, 397, 633, 814

NAGELE, E. 573, 977 NAIK, T.R. 283, 927 NAKAYAMA, M. 478, 562 NEWMAN, J.B. 907 NEWTON, C.J. 765 NEWTON, R.G. 77 NIXON, P.J. 839

OBERHOLSTER, R.E. 97 OBERSTE-PADTBERG, R. 515, 624 ODLER, I. 22, 695, 784 OJDROVIC, R.P. 70 OLLIVIER, J.P. 411

PAGE, C.L. 581, 839 PARSONAGE, J.R. 420 PEREIRA, E. 198, 525 PEREZ-PENA, M. 519 PETROSKI, H.J. 70 PIGEON, M. 896 PINTAR, M.M. 693 POPOVIC, K. 108, POPOVICS, S. 821 PORTO LOPEZ, J.M. 198, 525

RAGAI, J. 12 RAMACHANDRAN, A.R. 164 RAMME, B.W. 283, 927 REGOURD, M. 995 RINGOT, E. 411 RITTER, A. 433 RONDELEZ, F. 624 ROPER, H. 1003 ROSSI, P. 755 ROY, D.M. 153, 340, 519, 805, 891, 983 RSUMOVIC, M.M. 47

SADEGZADEH, M. 581 SAITO, M. 211 SARKAR, S.L. 591, 691, 864, 995 SCHNEIDER, U. 977 SCHWESINGER, P. 263

SCIAN, A.N. 198, 525 SELLEVOLD, E.J. 1, 1010 SERSALE, R. 404 SETZER, M.J. 81 SHAH, S.P. 249 SHARP, J.H. 77 SHEN DEXUN 532 SKIPPER, D.G. 851 SLOTA, R.J. 703 STADE, H. 553 STOJIMIROVIC, A.L. 70 SUBBA RAO, M. 687 SUGAMA, T. 37, 295 SYKES, J.M. 765

TAKAHASHI, H. 743
TAMAS, F.D. 340
TAN MUHUA 983
TANG MINGSHU 205, 709
TAYLOR, H.F.W. 613
TERAMURA, S. 743
THAULOW, N. 777
TITTLEBAUM, M.E. 851
TORRENT, R.J. 939
TURNER, A.B. 613

URHAN, S. 141, 465

VAN ROODE, M. 183 VIDICK, B. 131, 624, 845 VIPULANANDAN, C. 219 VOLKL, J.J. 81 VOLANT, D. 995 VOROS, M. 340

WAKELEY, L.D. 723 WANG JIAN GUO 544 WEJCHAN-JUDEK, M. 539 WINZER, S. 433 WITTMANN, F.H. 161, 453

WOLFEL, R. 263 WU XUEQUAN 205, 709

YAN, C. 231 YUAN, C.Z. 784

ZIMBELMANN, R. 651 ZUK, A. 539

